

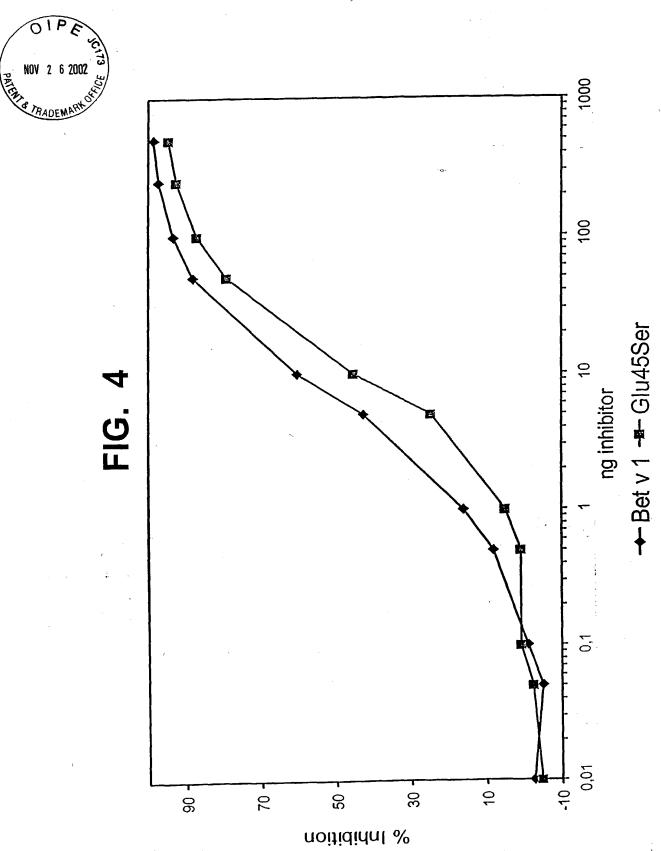
non-sense primer	31-	ATACTCTGACTCTGGGGGAGACA	-5
sense primer	5'-	TGAGACC <u>C</u> CCTCTGTTATCCCAG	-3 '
Bet v 1 non-sense	3 ' -	${\tt TTAATACTCTGACTCTGG\underline{T}GGAGACAATAGGGTCGTCGAGC}$	-5
Bet v 1 sense	5'-	${\tt AATTATGAGACTGAGACC\underline{A}CCTCTGTTATCCCAGCAGCTCG}$	-3



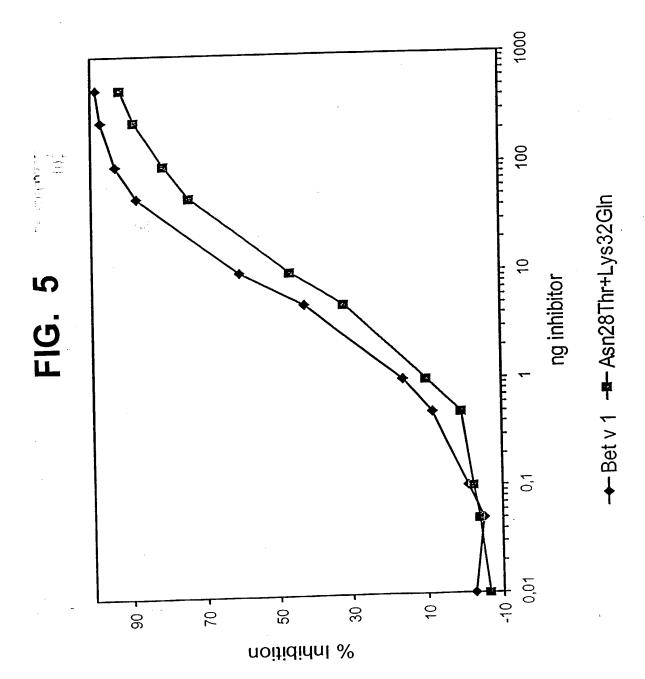
all	sense	1: 183Bv, 15-mer 5'-GTTGCCAACGATCAG
1	sense	2: 184Bv, 23-mer 5'-TGAGACCCCCTCTGTTATCCCAG
1	non-sense	3: 185Bv, 23-mer 5'-ACAGAGGGGGTCTCAGTCTCATA
2	sense	4:186Bv, 31-mer 5'-GATACCCTCTTTCCACAGGTTGCACCCCAAG
2	non-sense	5: 187Bv, 31-mer 5'-ACCTGTGGAAAGAGGGTATCGCCATCAAGGA
3	sense	6: 188Bv, 23-mer 5'-AACATTTCAGGAAATGGAGGCC
3	non-sense	7: 189Bv, 23-mer 5'-TTTCCTGAAATGTTTTCAACACT
4	sense	8: 190Bv, 23-mer 5'-TTAAGAACATCAGCTTTCCCGAA
4	non-sense	9: 191Bv, 23-mer 5'-AGCTGATGTTCTTAATGGTTCCA
5	sense	10: 192Bv, 23-mer 5'-GGACCATGCAAACTTCAAATACA
5	non-sense	11: 193Bv, 23-mer 5'-AGTTTGCATGGTCCACCTCATCA
6	sense	12: 194Bv, 23-mer 5'-TTTCCCTCAGGCCTCCCTTTCAA
6	non-sense	13: 195Bv, 23-mer 5'-AGGCCTGAGGGAAAGCTGATCTT
7	sense	14: 196Bv, 24-mer 5'-TGAAGGATCTGGAGGCCTGGAAC
7	non-sense	15: 197Bv, 24-mer 5'-CCCTCCAGATCCTTCAATGTTTTC
8	sense	16: 198Bv, 24-mer 5'-GGCAACTGGTGATGGAGGATCCAT
8	non-sense	17: 199Bv, 24-mer 5'-CCATCACCAGTTGCCACTATCTTT
all	non-sense	18: 200Bv, 15-mer 5'-CATGCCATCCGTAAG

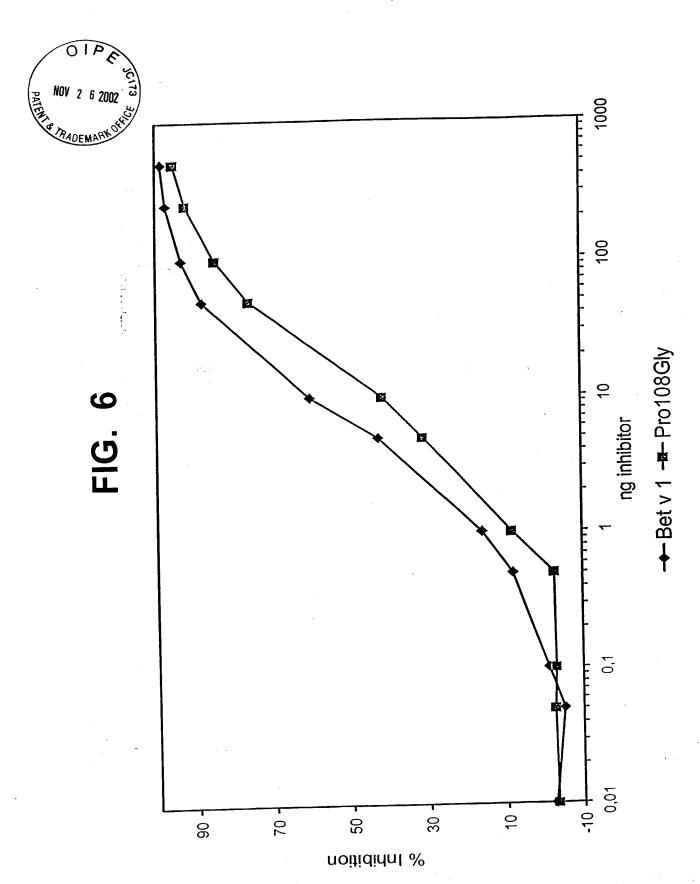


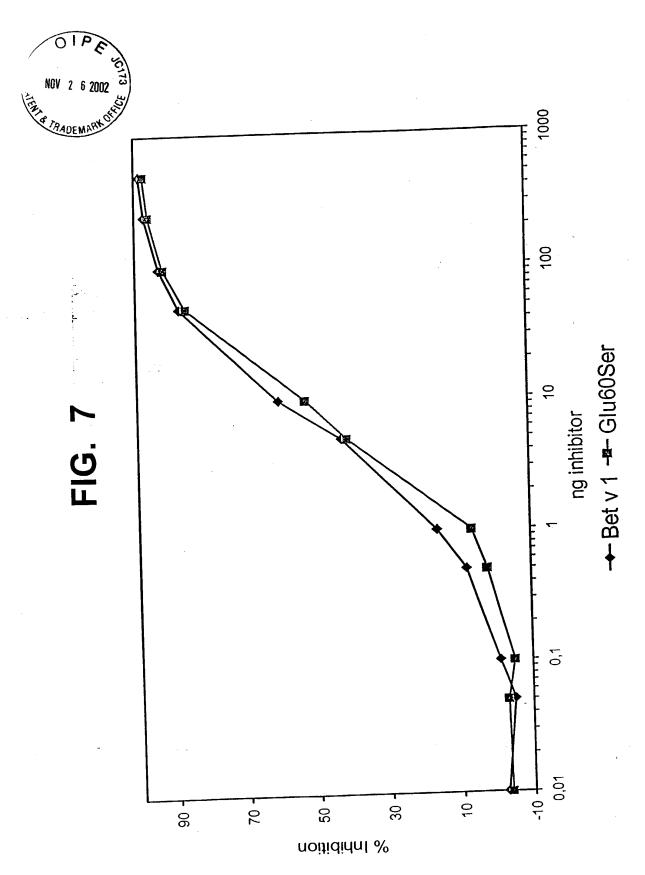
									1 (A-C	')									
GGT	GT	STT	AAT	TTAT	ľGA	GAC	TGA	GAC	C <u>A</u> C	CTC	TGT	TAT	ccc	AGC	AGC	TCG	ACT	GTT	CAA	G 60
G	v	F	N	Y	Е	Т	E	т	T ~1	P S	v	1	P	A	A	R	L	F	ĸ	20
				9 (A-	G)		2	(A-(c) :	4) S	-C)									
ccc		~ N 07~		TG <u>a</u> T								TOTAL SE	ועייטי	,,,,,,,,	****	N C CY	חרות אורי	רא כיי	7 N (79	r 120
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A	F	I	L	D-G	G	Đ	N-7	L	. F	P	K-(QV	A	P	Q	A	Ι	S	s	40
		3 (0	A-1	rc)	•	7 (A <i>l</i>	Y -10	:)					4 ((G-C	:)		6 (GA-	TC)	
GTT	GAA	AAC	AT	(<u>GA</u> A	GGJ	1 <u>AA</u> 7	rgga	.GGG	CCI	GG/	ACC	TTA:	AAG	AAG	ΑTC	AGC	TTI	ccc	<u>GA</u> A	180
v	E	N	I	E-S	G	N-5	G	G	P	G	T	1	ĸ	K-N	1	s	F	P	E-S	60
															5	(CA	-TG)		
GGC	crc	ССТ	TTC	'AAG'	rac	GTG	AAG	GAC	'AGA	GTI	GAT	GAG	GTG	GAC	CAC	<u>'A</u> CA	AAC	TTC	'AAA	240
G	L	₽	F	ĸ	Y	v	ĸ	Đ	R	v	D	E	v	D	H	T-A	N	F	ĸ	80
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Y	N	Y	S	v	1	Е	G	G	P	1	G	D	T	L	E	K	I	s	N	100
10 (0	AG-	-CA	C)		8	(CC	C-T	3G)												
<u>GAG</u> F	LAT!	AAG	ATA	GTGC	CA	AC <u>C</u>	<u>CC</u> T(GAT(GGA	GGA'	TCC	ATC	rtg	AAG	ATC.	AGC.	AAC	AAG	TAC	360
Е	1	ĸ	1	v	A	T	P-G	D	G	G	S	I.	L	K	1	s	N	к	Y	120
CACA	CC#	LAA (GT	GACC	AT	GAG	GTG	AAG	GCA	GAG	CAG	STT	AAG (GCA,	AGT.	AAA	GAA	٩ΤG	GGC	420
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SAGA	CAC	TT	rtg.	AGGG	CC	GTT	GAGA	\GC'	raco	TC	PTGO	CAC	CACT	rece	SAT	GCC"	гася	\AC	raa	480
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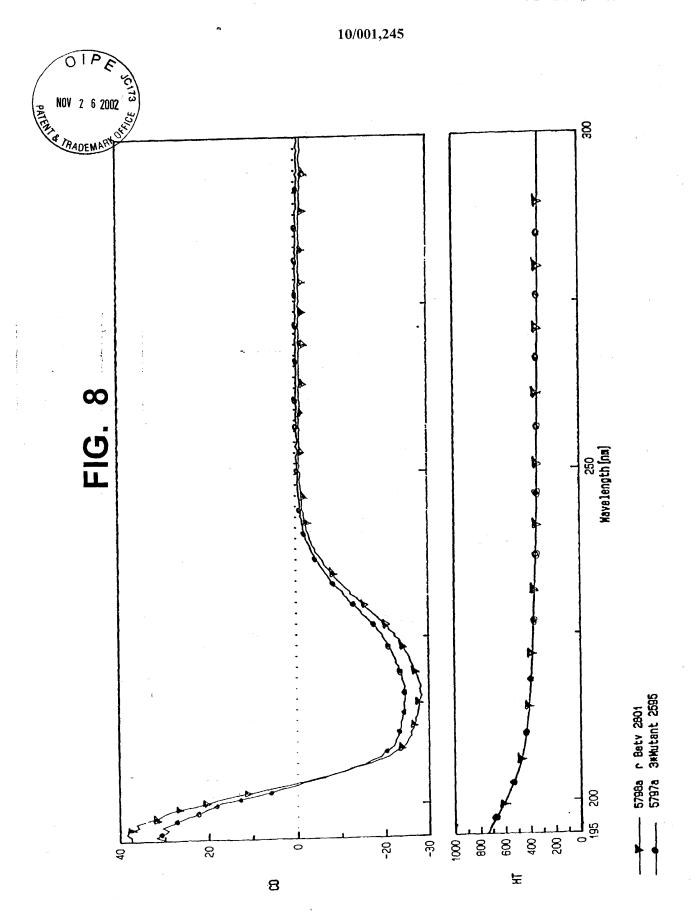












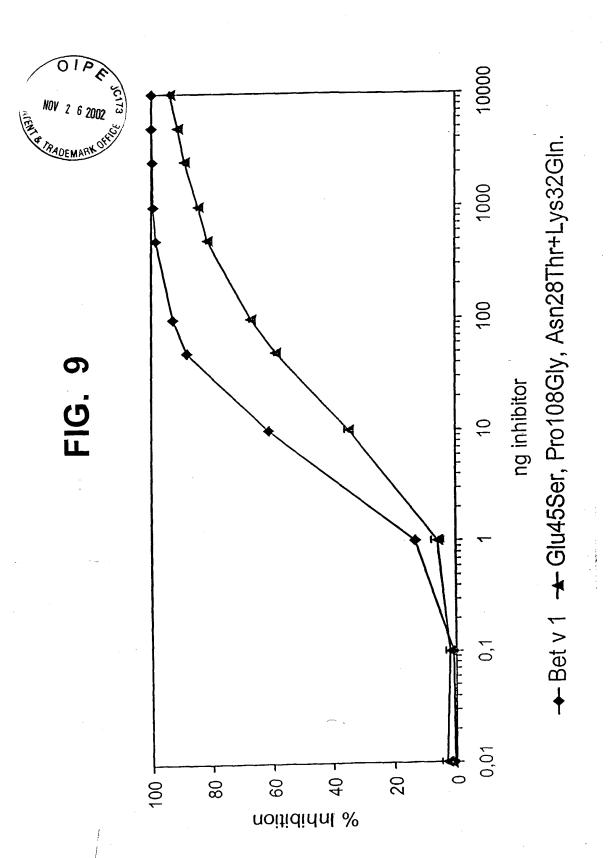




FIG. 10 A

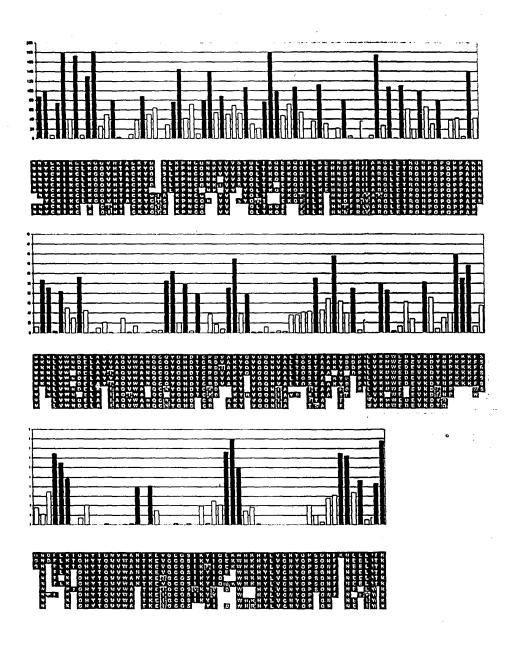




FIG. 10 B

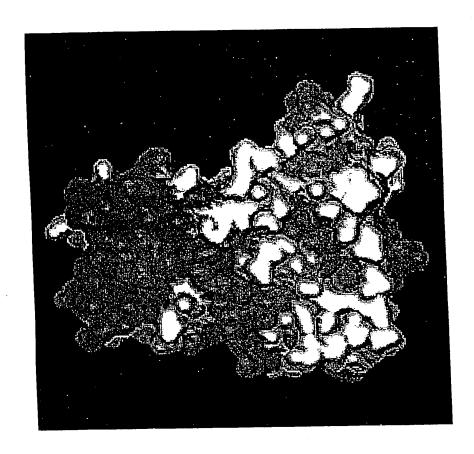




FIG. 11 A

Ves v 5 mutant 1 (K72A)

Ves v 5 sense	5 ~	${\tt ACCACAGCCTCCAGCGAAGAATATGAAAAATTTGGTATGGA}$	-31
Ves v 5 non-sense	3 ~ -	TGGTGTCGGAGGTCGCTTCTTATACTTTTTAAACCATACCT	-51
sense primer	5′~	CCAGCG <u>GCT</u> AATATGAAAAAT	-3~
non-sense primer	3′~	GTCGGAGGTCGC <u>CGA</u> TTATAC	-51

FIG. 11 B

Ves v 5 mutant 2 (Y96A)

Ves v 5 sense	5 ^ -	$\tt GGCTAATCAATGTCAATATGGTCACGATACTTGCAGGGATG$	-3′
Ves v 5 non-sense	3 -	${\tt CCGATTAGTTACAGTTATACCAGTGCTATGAACGTCCCTAC}$	-5′
sense primer	5´-	TGTCAAGCTGGTCACGATACT	-3~
non-sense primer	3 ~ -	TTAGTTACAGTT <u>CG</u> ACCAGTG	-5~

FIG. 12

all sense 1: XhoI start, 38-mer:

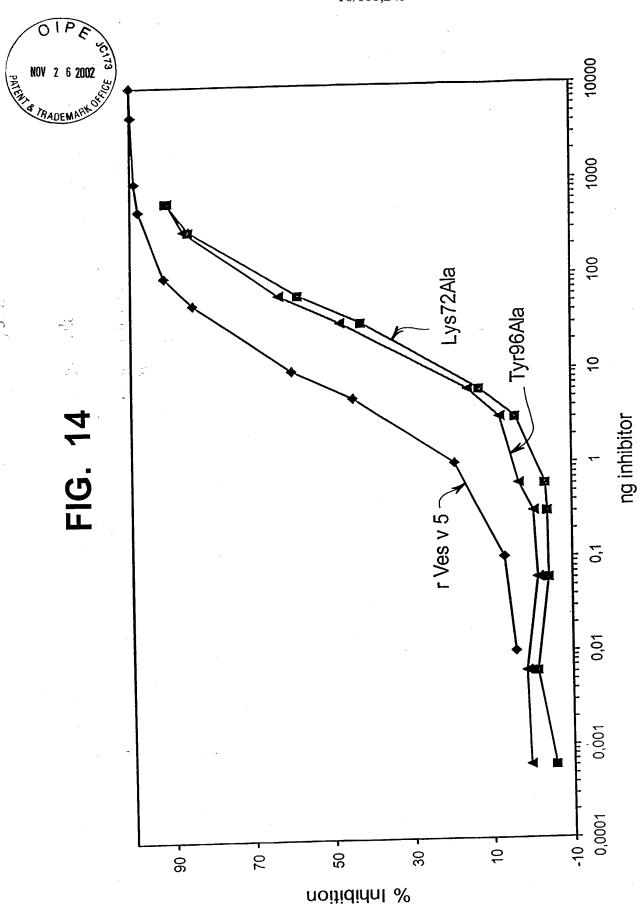
EcoRI 5 - CCGCTCGAGAAAGAAACAATTATTGTAAAATAAATG L E K R N N Y C K I K . Kex2 cleavage site amino terminus of Ves v 5

1 sense	1: K72As 21-mer	5´-CCAGCGGCTAATATGAAAAAT
1 non-sense	2: K72Aa 21-mer	5 ~ - CATATTAGCCGCTGGAGGCTG
2 sense	3: Y96As 21-mer	5 - TGTCAAGCTGGTCACGATACT
2 non-sense	4: Y96Aa 21-mer	5 - GTGACCAGCTTGACATTGATT
all non-sense	7: CT-pPICZαA, 21-mer	5 - ATTCATCAGCTGCGAGATAGG



1	. AA	CAA'	TTA'	TTG'	LAAT	AAT	AAA	ATG'	TTT	gaa <i>i</i>	AGG	AGG:	rgr	CCAT	rac?	GCC	CTG	CAA	ATA:	rgg <i>i</i>	7	60
1	N	N	Y	С	K	į	K	С	L	K	G	G	V	H	T	A	С	K	Y	G		20
61	AGT	rct'	ГААЛ	ACC	GAAT	TG	CGGT	raat	DAA1	GT <i>I</i>	\GT(GT <i>I</i>	ATCO	TAT	'GG'I	CTA	ACC	SAA	ACAZ	AGAG	}	120
21	s	L	K	P	N	С	G	N	К	V	V	v	s	Y	G	L	Т	ĸ	Q	E		40
121	AAA	CAZ	AGAC	CATO	CTTA	AAC	GAC	CAC	CAAC	rgac	TT	'AGA	CAA	AAA	LTA.	GCA	CGI	\GG <i>I</i>	TTC	GAG	;	180
41	K	Q	D	I	L	ĸ	E	H	N	D	F	R	Q	K	I	A	R	G	\mathbf{r}	E		60
101	ACT	יארי	י מיטיו	ባጽ ጽባ	n Cricher	va a s	יממא	CAC	יממיי	ייייני	ccc			A] (•	ניחיז!	TYCY C	מ אינ	,	240
	T																					80
																2 [Y96	A] (TA-	·GC)		
241	GAC	GAG	TTA	GCI	TAT	GTC	GCC	CAA	GTG	TGG	GCT	'AAT	CAA	TGT	CAA	<u>TA</u> T	GGI	CAC	GAT	ACT		300
81	D	E	L	A	Y	V	A	Q	v	W	A	N	Q	С	Q	Y	G	H	D	Ť		100
301	TGC	AGG	GAT	GTA	GCA	AAA	TAT	CAG	ĠTT	GGA	CAA	AAC	GTA	GCC	TTA	ACA	GGT	'AGC	ACG	GCT		360
101	С	R	D	V	A	K	Y	Q	V	G	Q	N	V	A	L	T	G	s	T	Α		120
361	GCT.	AAA	TAC	GAT	GAT	CCA	GTT	AAA	СТА	GTT.	AAA	ATG	TGG	GAA	GAT	GAA	GTG	AAA	GAT	TAT		420
121	A	ĸ	Y	D	D	P	v	K	L	V	K	M	W	E	Ď	E	v	K	D	Y		140
421	AAT	CCT	AAG	AAA	AAG'	rtt	TCG	GGA	AAC	GAC	TTT	CTG	AAA	ACC	GGC(CAT	TAC	ACT	CAA	ATG		480
	N																					
481	GTT	TGG	GCT.	AAC	ACC	\AG	GAA	GTT	GGT	TGT	GGA.	AGT	ATA	AAA:	rac:	ATT	CAA	GAG.	AAA	TGG		540
161	v	W	A	N	T	K	E	v	G	C	G	S	I	K	Y	I	Q	E	K	W		180
541	CAC	ααα	יייארי	тас	אוייויי	מדי:	TYGT	מאריים ייים	የ ይልፕ	GGA	ccc:	AGCY	GA)	AAC"	לחייוייו	AAG	ידג	gag.	AAĐ	CTT		600
	Н																					200
501	TATO	CAA	ACA:	AAG	ТАА																	612
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No cross-linking Mast cell Receptor bound IgE Cross-linking Mast cell



FIG. 16 A

DNA SEQUENCE

ORIGIN

1	cacaaattet tettettee ttactaetga teattaatet gaaaacaaaa eeaaacaaac
61	cattcaaaat gatgtacaaa attttgtgtc tttcattgtt ggtcgcagcc gttgctcgtg
121	atcaagtcga tgtcaaagat tgtgccaatc atgaaatcaa aaaagttttg gtaccaggat
181	gccatggttc agaaccatgt atcattcatc gtggtaaacc attccaattg gaagccgttt
241	tcgaagccaa ccaaaacaca aaaacggcta aaattgaaat caaagcctca atcgatggt
301	tagaagttga tgttcccggt atcgatccaa atgcatgcca ttacatgaaa tgcccattgg
361	ttaaaggaca acaatatgat attaaatata catggaatgt tccgaaaatt gcaccaaaat
421	ctgaaaatgt tgtcgtcact gttaaagtta tgggtgatga tggtgttttg gcctgtgcta
481	ttgctactca tgctaaaatc cgcgattaaa tcaaacaaaa tttattgatt ttgtaatcac
541	aaatgattga ttttctttcc aaaaaaaaaa taaataaaat tttgggaatt c

FIG. 16 B

- mmykilclsl Ivaavardqv dvkdcanhei kkvlvpgchg sepciihrgk pfqleavfea nqntktakie ikasidglev dvpgidpnac hymkcplvkg qqydikytwn vpkiapksen 61 vvvtvkvmgd dgvlacaiat hakird 121

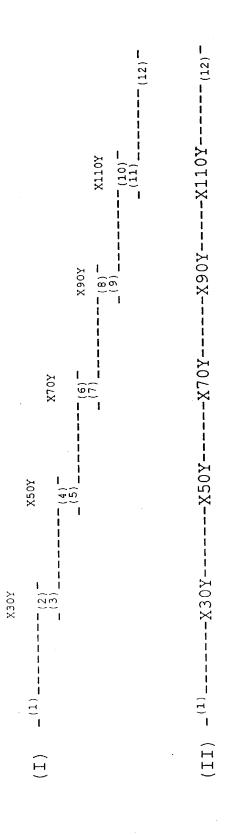






FIG. 18 A

DNA template: Bet v 1 (2589) carrying the Y5V mutation.

331pMalc (s)

189BV (a)
188BV (s)
362BV (a)
361BV (s)
364BV (a)
363BV (s)
366BV (a)
365BV (s)
332pMalc (a)

FIG. 18 B

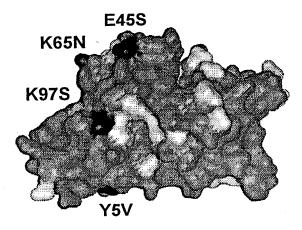
DNA template: Bet v 1 (2571) carrying N28T, K32	Q, P108G mutations.
331pMalc 368BVa	thington
367BVs	
370BVa	

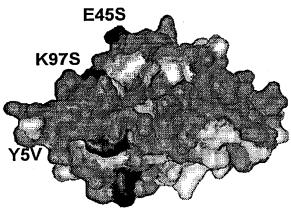
372BVa



FIG. 19 A

Bet v 1 (2628)





K134E

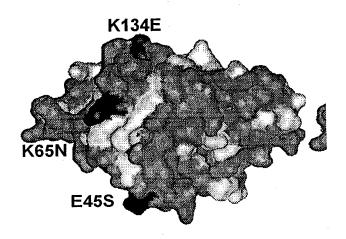
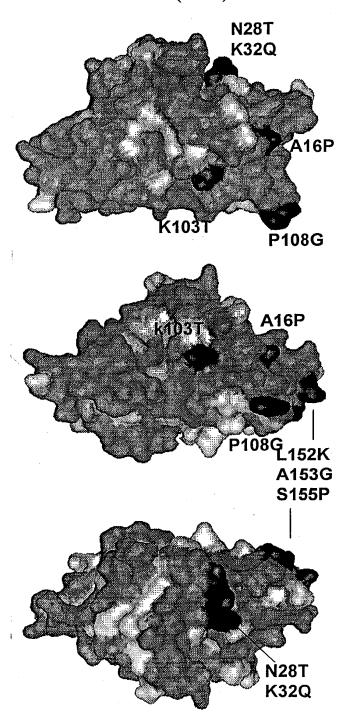
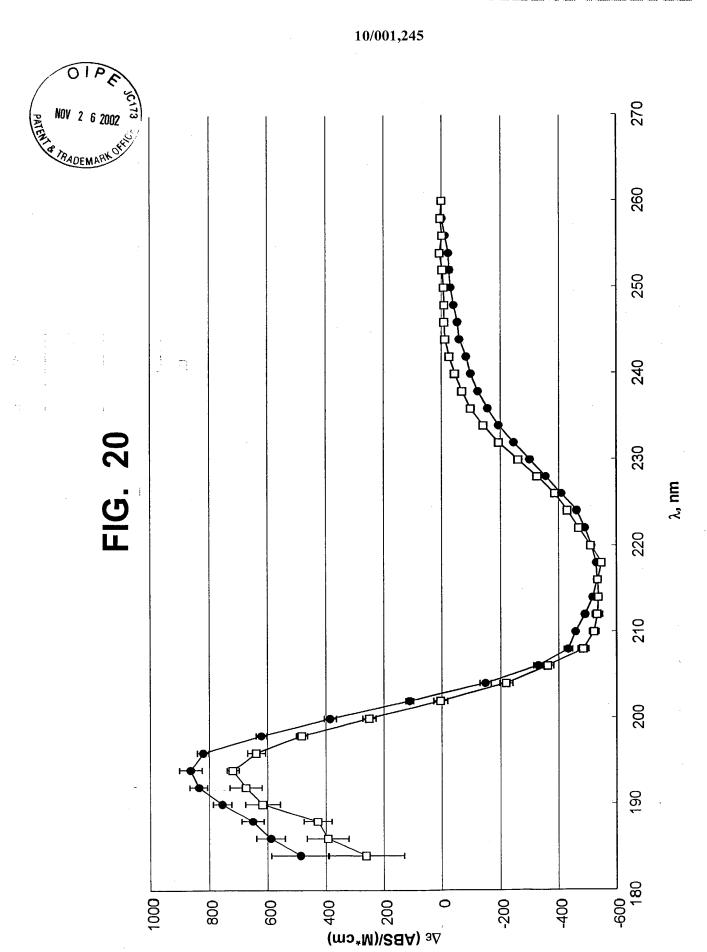


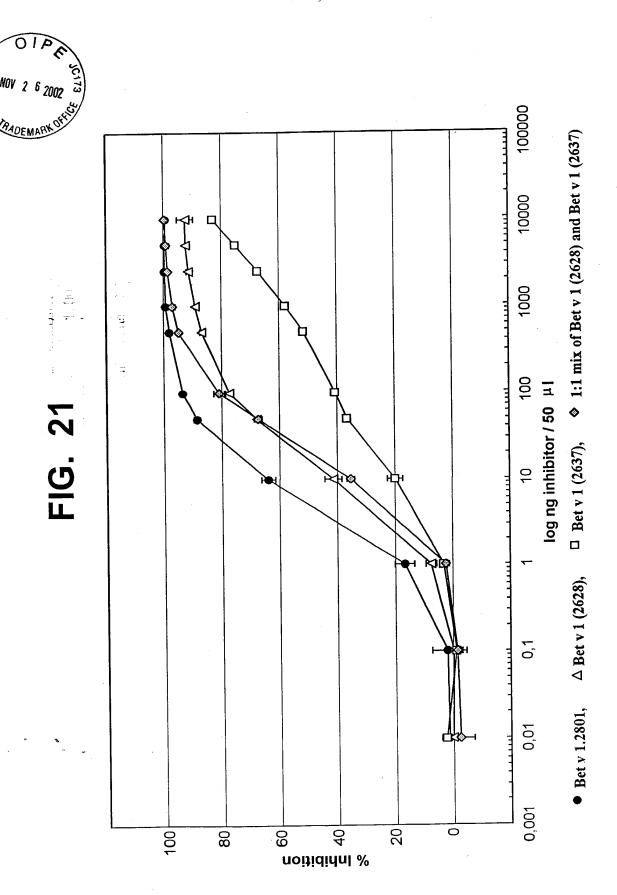


FIG. 19 B

Bet v 1 (2637)











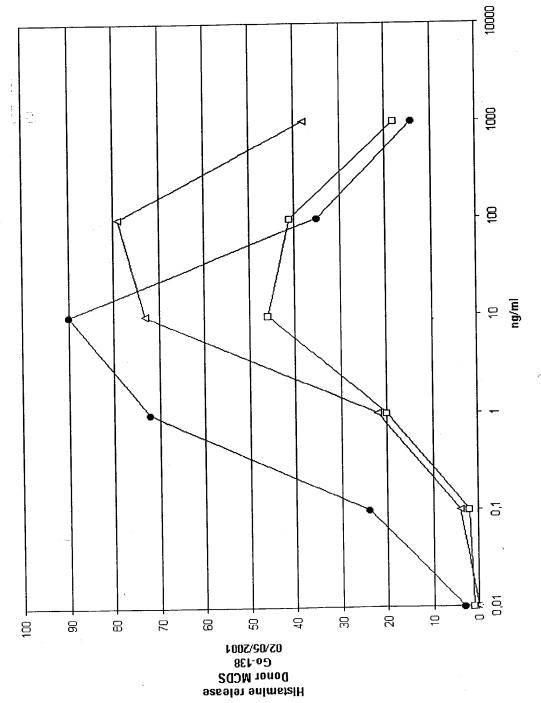
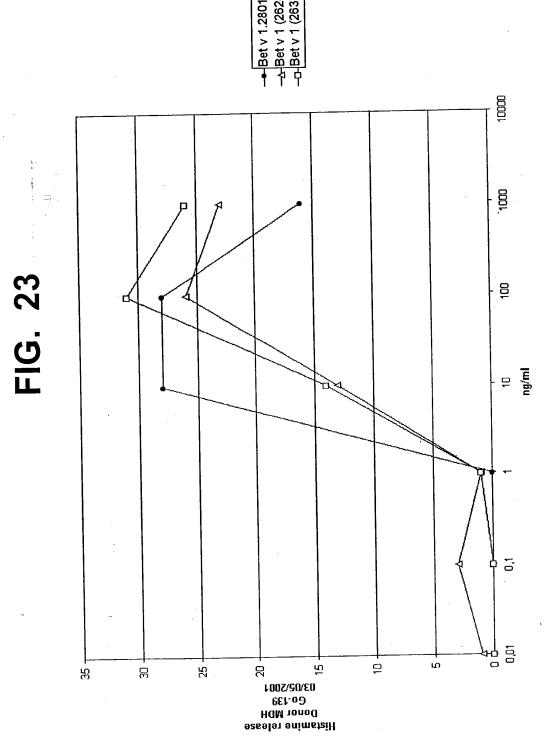
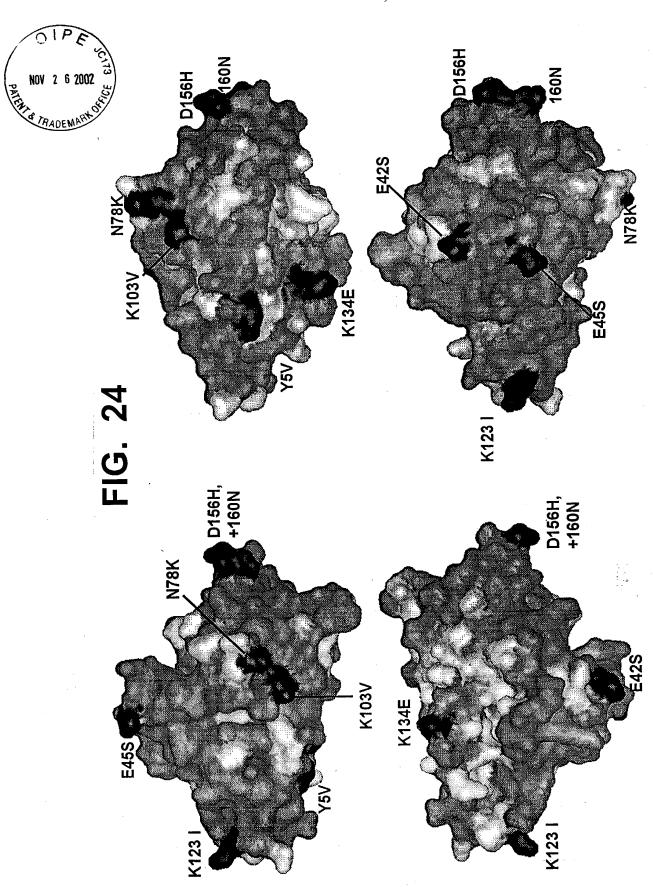
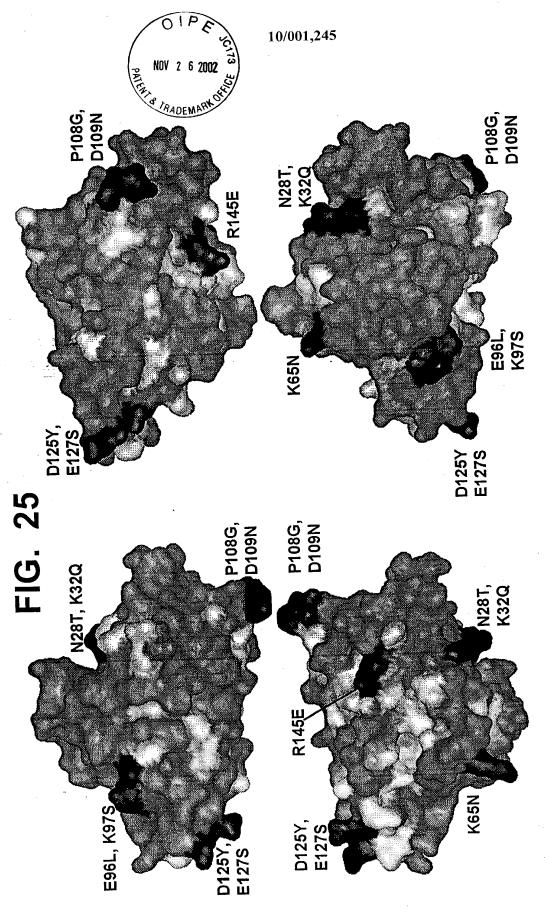
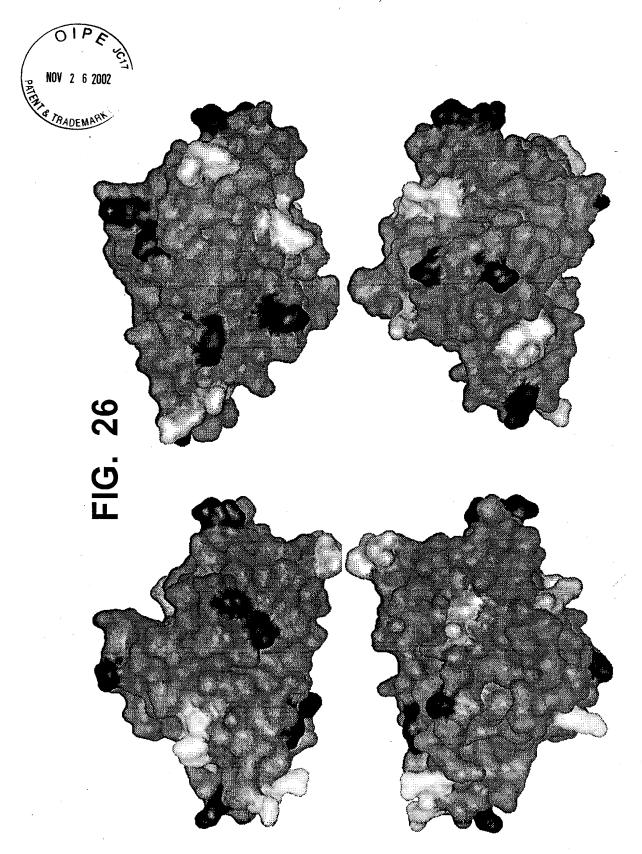


FIG. 22

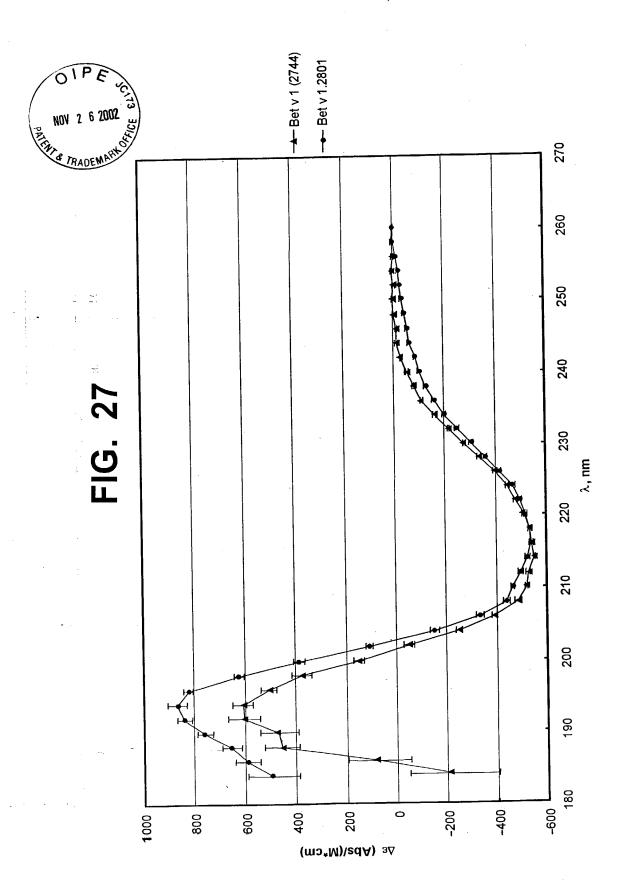




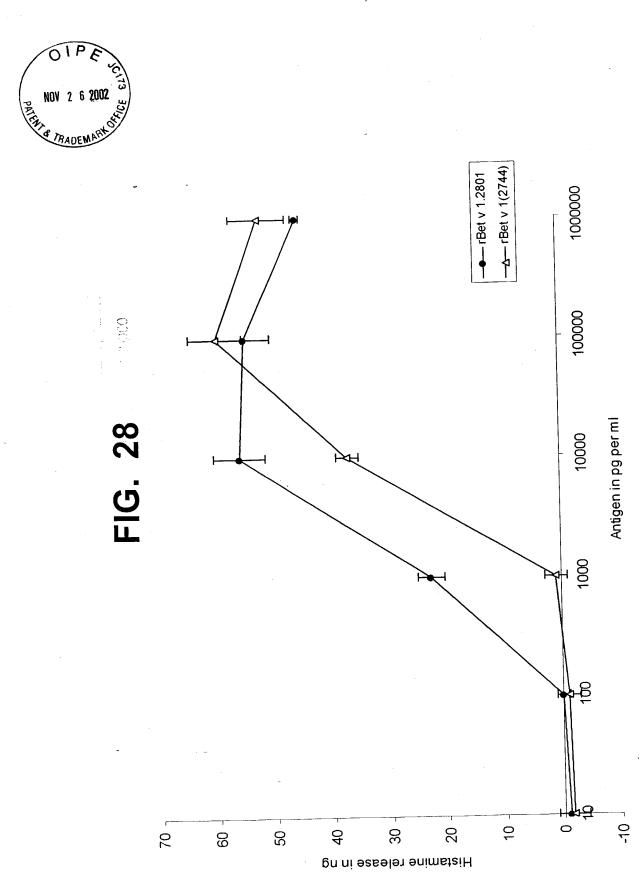




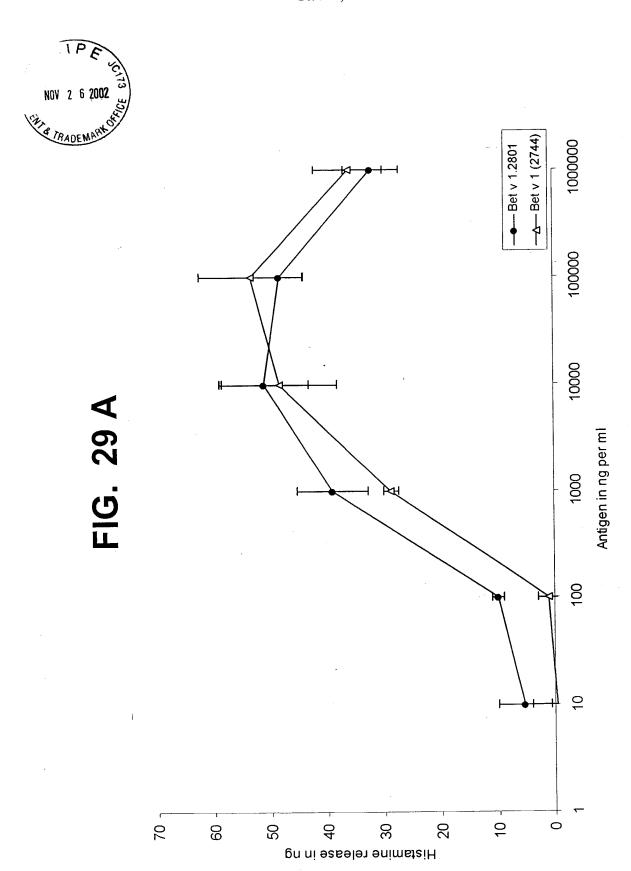
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FIG. 29 B

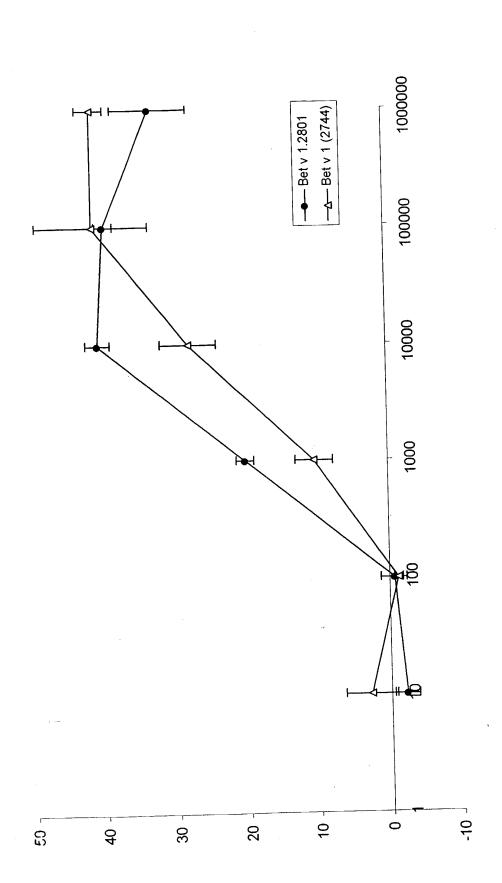
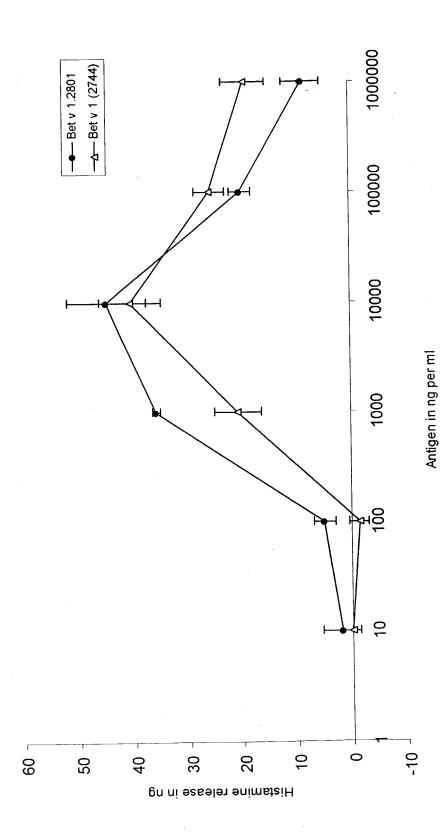
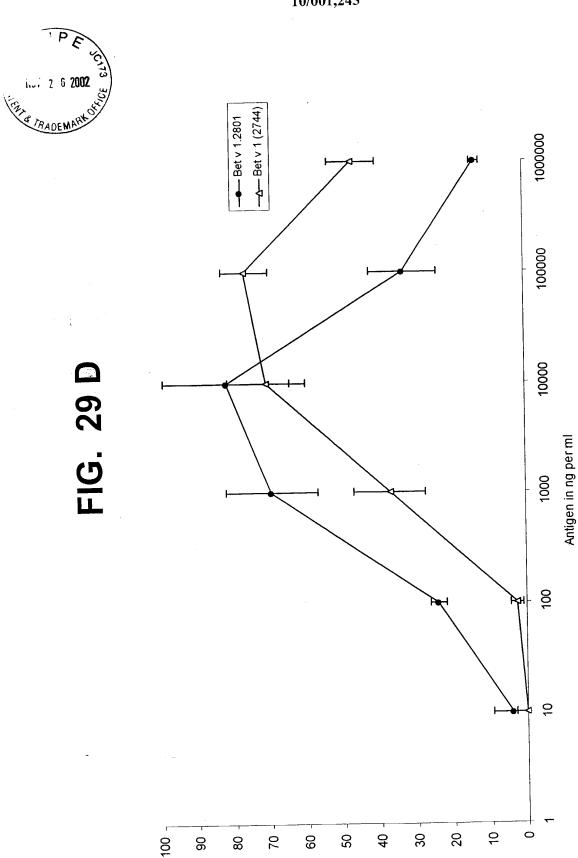




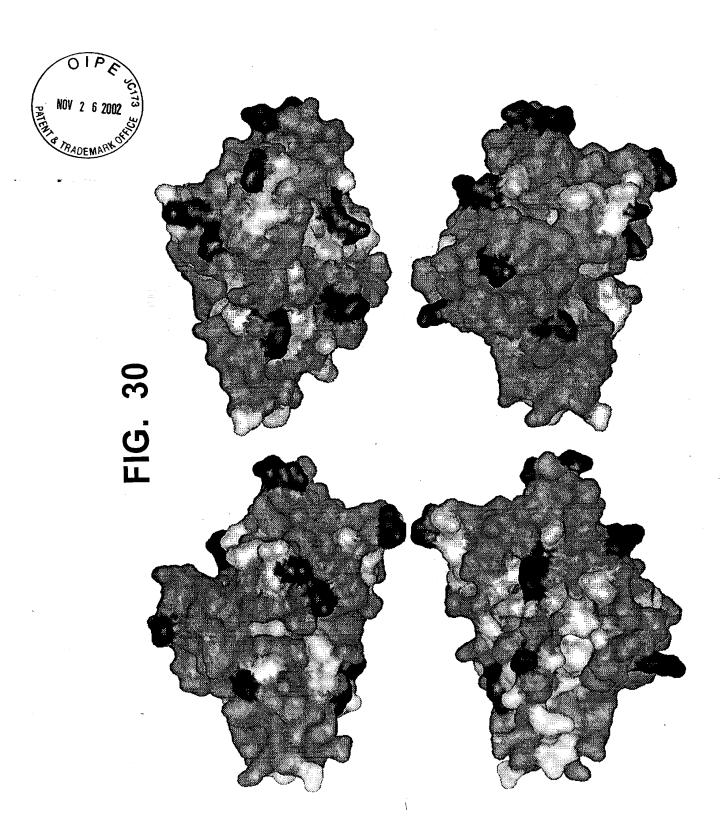
FIG. 29 C



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Histanine release in ng





K6A	sense	OB43	42-mer	5' -CCG <u>CTCGAG</u> AAAAGAGATCAAGTCGATGTCGCCGATTGTGCC-3'
	anti-sense	OB28	39-mer	Xba I 5' -CGT <u>TCTAGA</u> CTATTAATCGCGGATTTTAGCATGAGTTGC- 3'
K15E	sense	OB44	67-mer	Xho I 5' -CCG <u>CTCGAG</u> AAAAGAGATCAAGTCGATGTCAAAGATTGTGCC AACCATGAAATCAAAGAAGTTTTGG- 3'
	anti-sense	OB28	39-mer	Xba I 5' -CGT <u>TCTAGA</u> CTATTAATCGCGGATTTTAGCATGAGTTGC~ 3'
H30N	sense	OB46	54-mer	Kpn I 5' -CGGGGTACCAGGATGTCATGGTTCAGAACCATGTATCATTAA CCGTGGTAAACC-3'
	anti-sense	OB28	39-mer	Xba I 5' -CGT <u>TCTAGA</u> CTATTAATCGCGGATTTTAGCATGAGTTGC- 3'
E62S	sense	OB47	33-mer	5' -GCCTCAATCGATGGTTTATCAGTTGATGTTCCC-3'
	anti-sense	OB48	33-mer	5' -GGGAACATCAACTGATAAACCATCGATTGAGGC-3'
H74N	sense	OB49	32-mer	5' -CATG <u>GCATGC</u> AATTACATGAAATGCCCATTGG- 3'
	anti-sense	OB28	39-mer	Xba I 5' -CGT <u>TCTAGA</u> CTATTAATCGCGGATTTTAGCATGAGTTGC- 3'
K82N	sense	OB50	50-mer	5'-CTACGCATTGCATTACATGAAATGCCCATTGGTTAATGGACAA
	anti-sense	OB28	39-mer	Xbu I 5' -CGT <u>TCTAGA</u> CTATTAATCGCGGATTTTAGCATGAGTTGC- 3'

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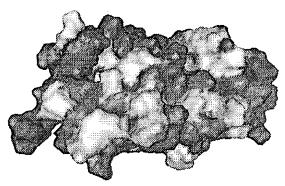
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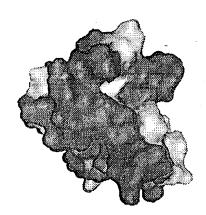
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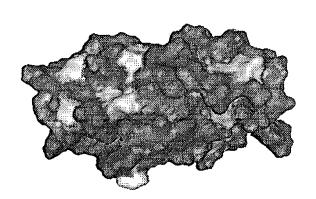
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FIG. 33







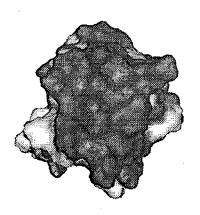
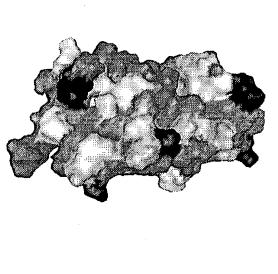
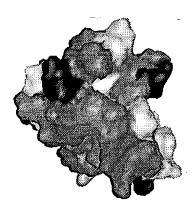
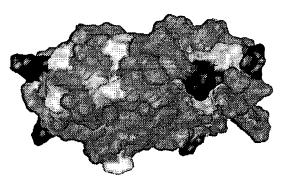




FIG. 34







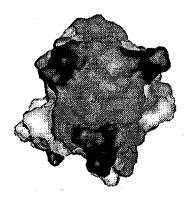




FIG. 35 A

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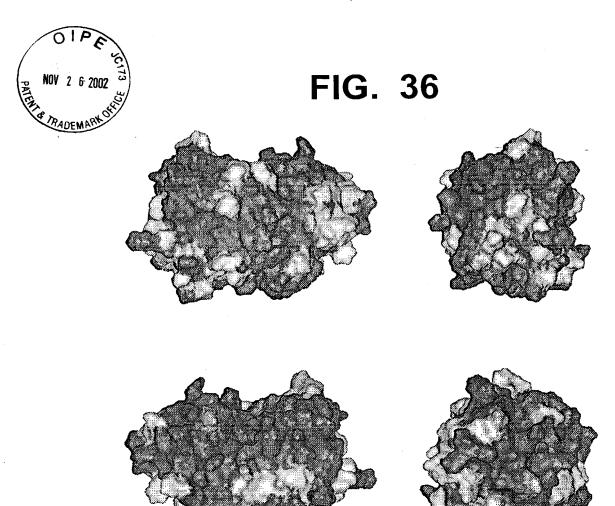
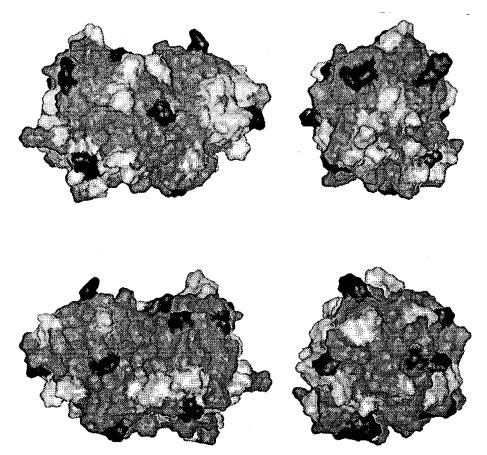




FIG. 37



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FIG. 38 A

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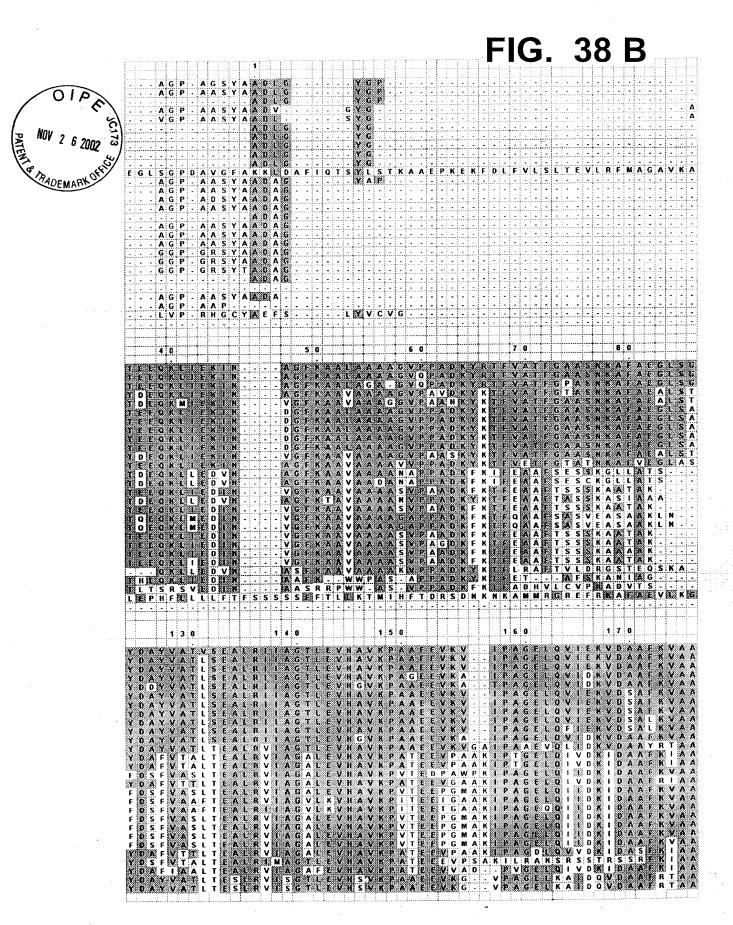




FIG. 38 C

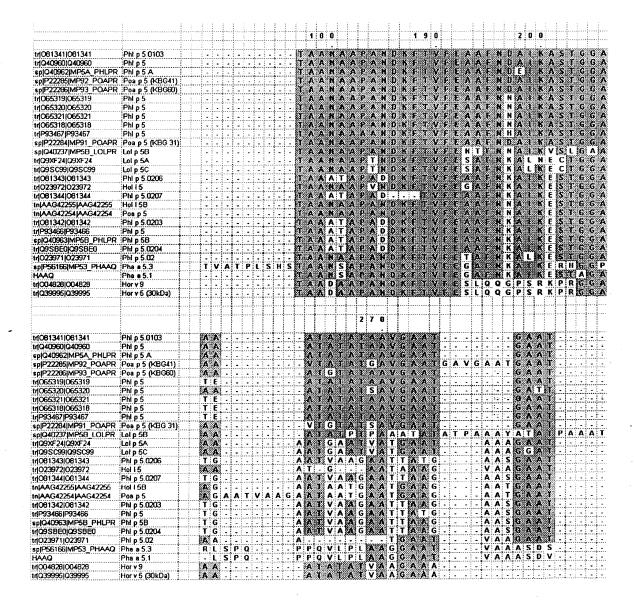




FIG. 38 D

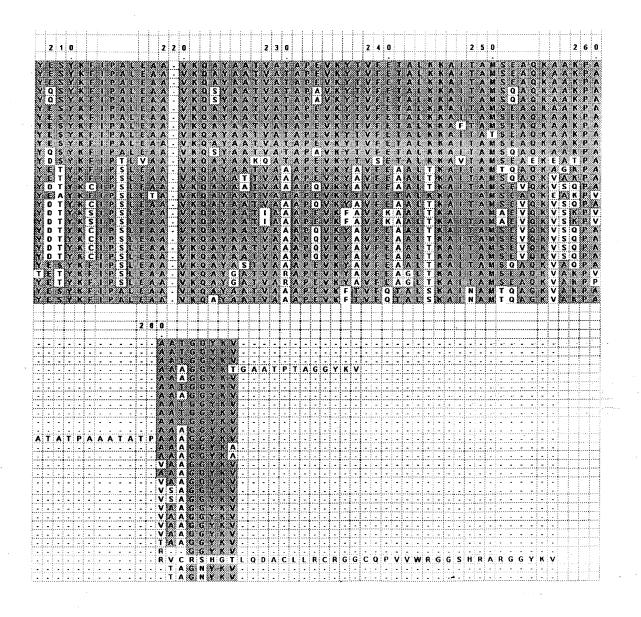
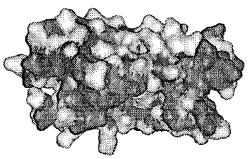
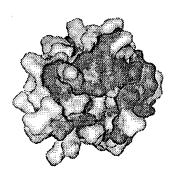
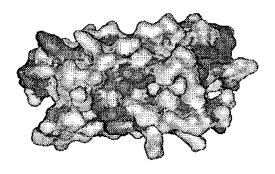




FIG. 39 A







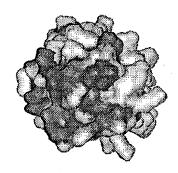
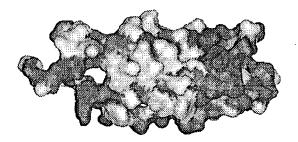
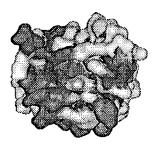
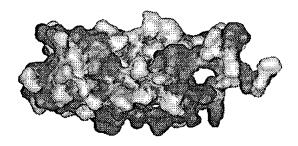




FIG. 39 B







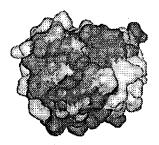
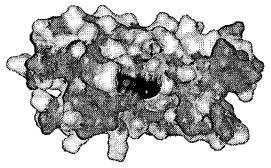
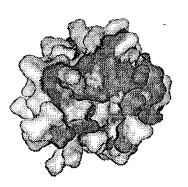
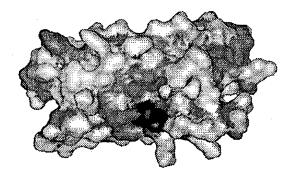




FIG. 40 A







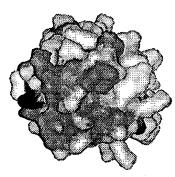
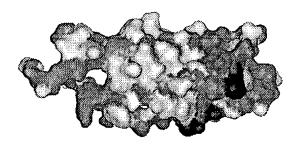
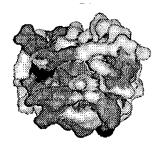
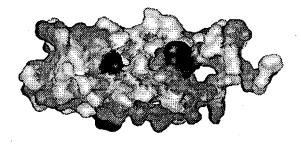


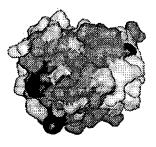


FIG. 40 B

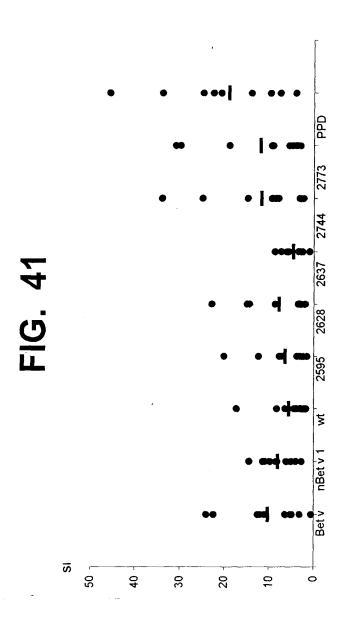












10/001,245

NOV 2 6 2002

INF-gamma

IL-5

--*-- proliferation
--*--IL-5/INF-gamma

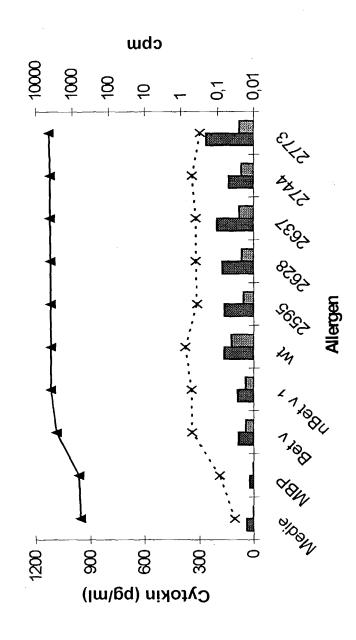
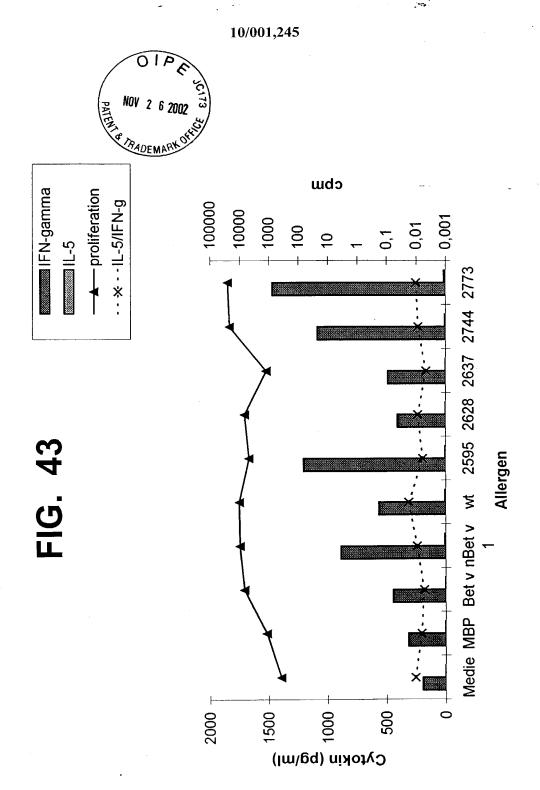
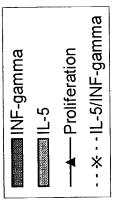


FIG. 42



10/001,245

NOV 2 6 2002



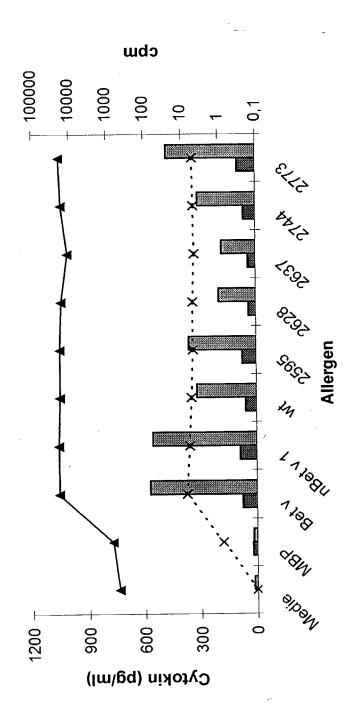


FIG. 44